

**Mutations that Kill** Inquiries and Exploration

***BioInquiry* Micromodule Worksheet**  
**Chapter 3, Module 5**

Student Name: \_\_\_\_\_

Professor Name: \_\_\_\_\_

Course Name/Number: \_\_\_\_\_

Date: \_\_\_\_\_

*Use the "Hints" or search on your own to help answer the following inquiries. Use this worksheet to record your answers or attach your own report. Enjoy your search.*

1. Some environmental factors, called carcinogens, make it more likely that the genetic material will mutate. What are some known carcinogens?
2. The Ames test is a laboratory assay that determines the potential for a substance to act as a carcinogen. How does the Ames test work?
3. What are the most common types of cancers? Which types of cancers are on the rise? Which types are on the decline?
4. Choose one kind of cancer. Learn what the risk factors are for that type of cancer. What is the incidence for that type in the American population? What is the death rate for people suffering from it? Are there certain ethnic groups that are at greater risk for developing this type of cancer?

**HINT:**

Learn more about cancer-causing mutations at <http://www.cancerogenetics.org/mutate.htm>